

# Comparisons of Job Characteristics

**Focus Occupation:** [Mobile Heavy Equipment Mechanics, Except Engines \(49-3042\)](#)

**Associated Occupation:** [Automotive Service Technicians and Mechanics \(49-3023\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 95

**Focus Occupation:** Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

**Associated Occupation:** Automotive Service Technicians and Mechanics (49-3023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	20.8	23.6	>	Current knowledge level is likely sufficient
Customer and Personal Service	11.3	15.1	12.7	<	Expanded education and/or training may be required
Engineering and Technology	5.7	12.9	10.2	<	Expanded education and/or training may be required
Physics	4.3	8.6	7.9	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 93

**Focus Occupation:** Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

**Associated Occupation:** Automotive Service Technicians and Mechanics (49-3023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Repairing	3.4	12.7	13.2	0	Current skill level may be sufficient
Equipment Maintenance	3.5	11.6	12.9	>	Skill level is likely sufficient
Troubleshooting	4.5	11.4	13.6	>	Skill level is likely sufficient
Operation and Control	5.4	11.1	10.8	0	Current skill level may be sufficient
Operation Monitoring	6.6	10.9	11.9	0	Current skill level may be sufficient
Quality Control Analysis	5.9	10.4	11.9	>	Skill level is likely sufficient
Equipment Selection	3.3	9.4	9.3	0	Current skill level may be sufficient
Installation	1.7	6.4	6.0	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 92			
Focus Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042) Associated Occupation: Automotive Service Technicians and Mechanics (49-3023)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Extent Flexibility	4.8	14.4	13.4	0	Current ability level may be sufficient
Control Precision	6.6	13.5	13.9	0	Current ability level may be sufficient
Finger Dexterity	7.6	12.6	12.9	0	Current ability level may be sufficient
Manual Dexterity	6.5	12.4	13.0	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	12.2	11.8	0	Current ability level may be sufficient
Multilimb Coordination	6.0	12.0	13.5	>	Current ability level is likely sufficient
Hearing Sensitivity	5.6	11.8	11.0	0	Current ability level may be sufficient
Auditory Attention	5.9	10.6	9.1	<	Some improvement in abilities may be required
Sound Localization	2.2	5.9	5.8	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 93
Focus Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042) Associated Occupation: Automotive Service Technicians and Mechanics (49-3023)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Align or adjust clearances of mechanical components or parts	72	
Align or adjust clearances of vehicle body parts or components	78	
Align vehicle frame	87	
Assemble, dismantle, or reassemble equipment or machinery	70	
Conduct tests to locate mechanical system malfunction	71	
Determine installation, service, or repair needed	58	
Diagnose malfunctioning vehicle systems	85	
Diagnose mechanical problems in machinery or equipment	65	
Examine vehicle to detect malfunctions, damage, or maintenance needed	75	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Follow safe waste disposal procedures	50	
Follow vehicle repair procedures	85	
Identify base metals for welding	68	
Inspect machinery or equipment to determine adjustments or repairs needed	42	

Lubricate machinery, equipment, or parts	59
Maintain repair records	65
Maintain welding machines or equipment	70
Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Operate vehicle engine electrical system test equipment	84
Overhaul vehicle major operating units, such as engines or transmissions	84
Perform safety inspections in industrial, manufacturing or repair setting	32
Read schematics	34
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair or replace malfunctioning or worn mechanical components	62
Service vehicle with water, fuel, or oil	73
Set up and operate variety of machine tools	62
Solder vehicle components	92
Test mechanical products or equipment	56
Test operate vehicles before or after repair	85
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use combination welding procedures	68
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use engine diagnostic equipment	82
Use hand or power tools	2
Use knowledge of metric system	39
Use knowledge of welding filler rod types	75
Use machine tools in installation, maintenance, or repair	72
Use precision measuring devices in mechanical repair work	61
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 94

**Focus Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)**  
**Associated Occupation: Automotive Service Technicians and Mechanics (49-3023)**

Tools and Technologies	Exclusivity
Batteries and cells and accessories	43
Business function specific software	1
Compressors	9
Computer data input devices	2

Computers	1
Cutting and crimping and punching tools	3
Data management and query software	1
Dispensing tools	6
Electrical measuring and testing equipment	7
Face and head protection	7
Fastener setting tools	12
Forming tools	2
Gas analyzers and monitors	10
Hearing protectors	12
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Mechanical instruments	14
Non destructive examination equipment	13
Paint applicators and painting accessories	15
Personal communication devices	2
Pneumatic tools	8
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Rough and finishing tools	5
Safety apparel	4
Safety footwear	21
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Transportation related equipment and instruments	29
Vehicle servicing equipment	43
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.